Bengaluru North City Corporation

Office of the Executive Engineer, TEC & Special Division,
Amruthahalli Main Road, Byatarayanapura, Bengaluru-560 092.
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Terms of Reference

General Conditions:

02 Nos Six Wheeler towing vehicles with Hydraulic jaws are required for towing medium and light vehicles like cars, three wheelers, auto rickshaws and two wheelers in Bengaluru North City Corporation.

1. The Categories of vehicles which are required to be towed are as follows;
    a) Medium Transport vehicle.
    b) Light motor vehicles including cars, 3 wheelers, tempos and auto rickshaws.
    c) Two wheelers.
2. The tenderer should mention proper type of towing vehicle, which he intends to provide.
3. All the staff of the towing vehicle should be provided with navy blue uniform and nameplate at all time when they are on duty.
4. The eligible bidders who fulfill the above conditions may submit their e-tenders mentioning the lowest rates along with necessary EMD by logging in to KPP Portal website https://kppp.karnataka.gov.in/
5. One driver, one cleaner, 2 crane boys should be employed by successful Tenderers in each towing vehicle. They should work under the direction of In-Charge Traffic Officer allotted to towing vehicle. They should lift vehicles which are found parked in the “No parking area” and the vehicles involved in road accidents etc.
6. Towing vehicle should be painted in Yellow color and successful bidders should install Road safety awareness and fine amount particulars Stickers in their own cost. Details will be provided by this office.
7. Towing vehicle should provision for Toolbox, first aid box, backside seating provision, public announcement system with siren, headlamp, cones and chains, reflectors.
8. The Towing vehicles should be fitted with 2PA systems of 30 Watts. One fitted to the front and other facing rear compulsorily.
9. The tenderer should deploy two video cameras with minimum 20 days continues recording front and rear side to record the entire proceedings of the towing operations.

10. The towing vehicles should tow the vehicles between 7.00 am to 10.00 pm on all the days.
11. The owner of the towing vehicle is held responsible for the damage caused to the vehicles during course of towing a vehicle.

TECHNICAL SPECIFICATION OF TOWING VEHICLES
Quantity – 2 Nos

1. Six Wheeler Towing vehicle with Chassis of 11 Ft x 6 Ft.
2. Tow away truck with power steering / mechanical.
3. Capable of towing cars of all wheel size by hydraulic lifting.
4. Lifting cars upto 3 tons.
5. Lifting height should be adequate to suitably tow the vehicle.
6. Tow rating 6250lbs.
7. Self loading wheel lift.
8. Hydraulic technology for both front tires.
9. Safety belt, rear strip, ratchet and strap combo, wrap around axle, spacer blocks.
10. Provision for Toolbox, First aid box, Backside seating provision, public announcement system with siren, Headlamp, cones and chains, reflectors.

Camera Specifications:

Dome Sensor unit for surveillance indoors, outdoors and in vehicles. Easy to install, vandal resistant recessed dome sensor unit for discreet surveillance indoors, outdoors and in vehicles. The rugged sensor unit should withstand dust, rain, snow, vibration, shock and impact provides a 1080p resolution and a wide 110° horizontal field of view.
It enables WDR- Forensic capture, ideal for scenes with very bright and dark areas comes with a 12m(39ft) pre mounted cable for connection to a main unit. A rotation tool to be supplied for leveling the image.

Camera Specification

a. Image Sensor ½.8” (effective) progressive scan RGB CMOS
b. Lens 2.8mm, F2.0
   With F34/F41/F44, 1080p
   Horizontal angle of view: 110°
   Vertical angle of view: 61°
   With F34/F44, 720p
   Horizontal angle of view: 71°
   Vertical angle of view: 40°
c. Resolution Max. 1920x1200/1080

d. Wide dynamic range, WDR- Forensic Capture
   With F41:1080p, 25/30 fps (50/60 Hz)
   With F44: 720p, 12.5/15 fps (50/60Hz)
e. Minimum Illumination, Color: 0.3 lux
f. Shutter time:
   HDTV 1080p 25/30/50/60 fps: 1/143000s to 2s WUXGA (1920x1200)
   25/30 fps: 1/143000s to 2s
   With F34/F44:
   1080p 12.5/15 fps: 1/22500s to 2s HDTV 720p 25/30
   Fps: 1/28000s to 2s
g. Frame rate Max. 50/60 fps (50/60 Hz)
h. Camera angle adjustment
   Tilt: 120°, Rotation: 90°
i. General
   Casing IK09- and IP66- rated plastic casing
j. Operating conditions, -30°C to 55°C (-22°F to 131°F)
k. Humidity 10-100% RH (condensing)
l. Storage conditions, -40°C to 65°C (-40°F to 149°F)
m. Approvals ECE R10 rev.04, EN 50121-4, IEC/EN/UL 60950-1, IEC60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 62262 IK09, IEC/EN/UL 60950-22
n. Dimensions Depth:38mm (1 ½ in)
   112mm (1/6 in) 12-m (39Ft) cable
o. Weight 590g (1.3lb)
p. Required hardware
   F34/F41/F44 Main Unit

Main Unit for CCTV – Technical Specifications

It should support at least four sensor units for surveillance for four closely situated areas. This enables a cost effective; highly discreet solution for multi-view surveillance, allowing simultaneous streaming of 1080p or HDTV 720p videos from four different areas through one Ethernet port. Quad streaming is also supported. The unit must offers wide dynamic range capability for handling scenes with high contrast lighting with zip stream technology, provides a more efficient video compression, enabling lower bandwidth and storage use. It has 2 SD card slots for local storage of recordings and supports power over Ethernet and 8-28v DC.

- **Video compression**, H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles, Motion JPEG
- **Resolution** 1920x1080 (1080p) to 480x270, 1280x720, to 480x270
- **Wide dynamic range**, Dynamic Contrast
- **Frame rate** in 1080p: upto 12.5/15 fps (50/60Hz), In 720p: up to 25/30 fps (50/60Hz)

- **Video Streaming multiple, individually configurable streams in H.264 and motion JPEG** Zip stream technology in H.264, Controllable frame rate and bandwidth, VBR/MBR H.264 Quad view, max 1080p resolution, 25/30 fps (50/60Hz) with 720p capture mode 12.5/15 fps (50/60 Hz) with 1080p capture mode
- **Image Settings**
  Compression, color, brightness, sharpness, contrast, white balance, exposure value, exposure control, exposure zones, local contract, rotation, corridor format, text and image overlay, privacy mask, mirroring of images, wide dynamic range – dynamic contrast.
- **Network, Security**
  Password protection, IP address filtering, HTTPSb encryption, IEEE 802.1Xb network access control, Digest authentication, User access log, Centralized certificate Management.
- **System integration**
- **Analytics Included**, video Motion Detection Supported, cross line detection, Digital Auto tracking support for camera Application platform enabling installation of third party applications.

Public Address System with Siren: Megaphones with 30W Power output, Built in Siren

1. Voice range 600 to 800 mtrs
2. Megaphone Modes: Talk + Siren Alarm
3. Convenient Coiled-cord handheld Microphone
4. Adjustable Volume Control
5. Simple Button Control Operation
6. High powered audio reproduction
7. Wide bell diameter for extended projection
8. Ergonomic Pistol grip & lightweight Chassis
9. Battery Operated
10. Power Supply Jack: DC12V adapter connector
11. Close-to-lip speaking to avoid background noise
12. Easy for extension of wire length